

Exhaust System

GROUP
25

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PART 25-01 General Exhaust System Service

This part covers the general exhaust system, adjustments and repair procedures.

Always refer to the Master Parts Catalog for parts usage and interchangeability before replacing a component part of the exhaust system.

The exhaust system must be free of leaks, binding, grounding and excessive vibrations.

These conditions are usually caused by loose or broken clamps, brackets

or pipes. If any of these conditions exist, check the exhaust system components and alignment. Adjust or replace as necessary to maintain the specified clearances (refer to the illustrations in each section).

Brackets, clamps and insulators should be replaced if they are damaged or badly corroded. Do not attempt to repair these parts.

Inspect the inlet pipe(s), outlet

pipe(s), resonator(s) and muffler(s) for cracked joints, broken welds and corrosion damage that would result in a leaking exhaust system. Inspect the clamps, brackets and insulators for cracks and stripped or badly corroded bolt threads. When pipe clamp(s) are loosened and/or removed to replace a pipe, muffler or resonator, replace the clamp(s) if there is reasonable doubt that its service life is limited.

1 DESCRIPTION AND APPLICATION

SINGLE EXHAUST SYSTEMS

The single exhaust system in vehicles with a six cylinder engine consists of an inlet pipe and an inlet pipe extension, muffler and outlet pipe assembly. Refer to Part 25-02, Six Cylinder Single Exhaust Systems.

The single exhaust system in vehicles with a 302, 351, 390 or 429 V-8 engine, consists of a Y-type inlet pipe and an inlet pipe extension, muffler

and an outlet pipe assembly. Refer to Part 25-03, V-8 Single Exhaust Systems.

DUAL EXHAUST SYSTEMS

The dual exhaust system in vehicles other than the Mustang consist of an H-type inlet pipe and an inlet pipe extension, muffler, and outlet pipe for each side. The Thunderbird and Continental Mark III also have resona-

tors located on each side in the exhaust system.

The Mustang dual exhaust system consists of an H-type inlet pipe, inlet pipe extension, resonator and resonator-to-muffler pipe assemblies, muffler, and outlet extensions. The GT performance option has outlet pipe extensions.

Refer to Part 25-04, V-8 Dual Exhaust Systems.

Car Line	Engine			TYPE SYSTEM				Reference
	Cyl.	C.I.D.	Carb.	Sedan and Hardtop	Convertible	Station Wagon	Resonator	
Falcon	6	170	1-V	Single			No	25-02
	6	200	1-V	Single		Single	No	25-02
	8	302	2-V	Single		Single	No	25-03
Fairlane Montego	6	250	1-V	Single	Single	Single	No	25-02
	8	302	2-V	Single	Single	Single	No	25-03
	8	351	2-V	Single	Single	Single	No	25-03
	8	351	4-V	Dual	Dual	Single	No	25-04
	8	390	4-V	Dual	Dual	Single	No	25-04
	8	427	4-V	Dual*			No	25-04
	8	428	4-V	Dual	Dual		No	25-04
Maverick	6	170	1-V	Single			No	25-02
	6	200	1-V	Single			No	25-02
Mustang	6	200	1-V	Single	Single		No	25-02
	6	250	1-V	Single	Single		No	25-02
	8	302	2-V	Single	Single		No	25-03
	8	351	2-V	Single	Single		No	25-03
	8	351	4-V	Dual	Dual		Yes	25-04
	8	390	4-V	Dual	Dual		Yes	25-04
	8	428	4-V	Dual	Dual		Yes	25-04
Cougar	8	351	2-V	Single or Dual	Single or Dual		No	25-03 25-04
	8	351	4-V	Dual	Dual		No	25-04
	8	390	4-V	Dual	Dual		No	25-04
	8	428	4-V	Dual	Dual		No	25-04
Ford Meteor	6	240	1-V	Single	Single	Single	No	25-02
	8	302	2-V	Single	Single	Single	No	25-03
Ford Mercury Meteor	8	390	2-V	Single	Single	Single	No	25-03
Ford Mercury	8	428	4-V	Dual	Dual	Single	No	25-04
Ford Mercury Meteor	8	429	2-V	Single	Single	Single	No	25-03
	8	429	4-V	Dual	Dual	Single	No	25-04
T-Bird	8	429	4-V	Dual			Yes	25-04
Lincoln Continental	8	460	4-V	Single			Yes	25-03
Continental Mark III	8	460	4-V	Dual			Yes	25-04

*Hardtop Only

PART 25-02 Six Cylinder Single Exhaust Systems

COMPONENT INDEX Applies Only to Models Indicated	Ford	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang
INLET PIPE—EXHAUST MANIFOLD								
Description	02-01	02-01	02-01	02-01	02-01	02-01	02-01	02-01
Removal and Installation	02-01	02-01	02-01	02-01	02-01	02-01	02-01	02-01
Specifications	02-08	02-08	02-08	02-08	02-08	02-08	02-08	02-08
MUFFLER								
Description	02-01	02-01	02-01	02-01	02-01	02-01	02-01	02-01
Removal and Installation	02-02	02-02	02-02	02-02	02-02	02-02	02-02	02-02
Specifications	02-08	02-08	02-08	02-08	02-08	02-08	02-08	02-08
OUTLET PIPE								
Description	02-01	02-01	02-01	02-01	02-01	02-01	02-01	02-01
Removal and Installation	02-02	02-02	02-02	02-02	02-02	02-02	02-02	02-02
Specifications	02-08	02-08	02-08	02-08	02-08	02-08	02-08	02-08

A page number indicates that the item is for the vehicle(s) listed at the head of the column.

1 DESCRIPTION

The single exhaust system in most vehicles with a six cylinder engine consists of an exhaust manifold inlet pipe and an inlet pipe extension, muf-

fler and outlet pipe assembly.

The Falcon and Maverick single exhaust system have an exhaust manifold inlet pipe and an intermediate

pipe-muffler-outlet pipe assembly. The intermediate pipe-muffler-outlet pipe is an assembly that has been welded into one integral unit.

2 REPLACEMENT

The replacement procedures given apply to all vehicle models unless otherwise noted. Typical exhaust systems for the various vehicle models are shown in Figs. 1 through 5.

EXHAUST MANIFOLD INLET PIPES—EXCEPT FALCON AND MAVERICK

REMOVAL

1. Raise the vehicle.
2. Remove the inlet pipe clamp at the inlet pipe extension.
3. Remove the bolts securing the outlet pipe to the intermediate support bracket.
4. Support the muffler and outlet pipe with soft wire.
5. Remove the clamp attaching the outlet pipe to the rear support bracket.
6. Separate the inlet pipe extension from the inlet pipe.

7. Remove the retaining nuts securing the inlet pipe to the exhaust manifold and remove the inlet pipe.

8. Clean the gasket surfaces of the exhaust manifold and inlet pipe.

9. Discard the gasket and replace any damaged parts.

INSTALLATION

1. Place a new gasket on the inlet pipe flange.
2. Install the inlet pipe on the exhaust manifold and loosely install the flange retaining nuts.
3. Position the outlet pipe to the intermediate and rear support brackets. Loosely install the retaining bolts.
4. Position the inlet pipe to the inlet pipe extension and loosely install the retaining clamp.
5. Align the exhaust system to conform to the clearance specifications (Figs. 1 through 4). Starting from the front of the system, torque all nuts

and bolts to the specifications in Section 3 of this part.

6. Check the exhaust system for leaks.
7. Lower the vehicle.

EXHAUST MANIFOLD INLET PIPE—FALCON AND MAVERICK

REMOVAL

1. Raise the vehicle.
2. Loosen the inlet pipe U-bolt clamp at the end close to the transmission extension housing.
3. Support the intermediate pipe-muffler-outlet pipe assembly with soft wire at each end and remove the attaching screws from the rear hanger assembly to muffler support bracket.
4. Slide the intermediate pipe-muffler-outlet pipe assembly rearward to disconnect it from the inlet pipe assembly.
5. Remove the stud nuts from the

exhaust manifold studs and remove the inlet pipe assembly from the vehicle.

INSTALLATION

1. Clean the exhaust manifold outlet seat. Install a new gasket on the inlet pipe flange and position the inlet pipe assembly into the exhaust manifold. Loosely install the manifold stud nuts. Be sure that the gasket is properly seated in the exhaust manifold seat.
2. Engage the forward end of the intermediate pipe with the exhaust manifold inlet pipe. Verify that the assembly slot is properly indexed with the tab on the inlet pipe. Remove the temporary support wires.

3. Position the muffler rear bracket to the rear support hanger bracket and loosely install the retaining screws.

4. Position the U-bolt clamp on the rearward end of the exhaust manifold inlet pipe (close to the extension housing).

5. Position the exhaust system within the clearance specifications as shown in Fig. 5.

6. Starting at the front of the exhaust system, tighten the manifold stud nuts and inlet pipe U-bolt clamp nuts, evenly and alternately to the specified torque requirements. Tighten the rear hanger mounting screws to the specified torque.

7. Lower the vehicle and check the exhaust system for leaks.

MUFFLER AND OUTLET PIPE ASSEMBLIES—EXCEPT FALCON AND MAVERICK

REMOVAL

1. Raise the vehicle on a hoist that permits the rear axle to fall to its furthest extension. This will provide the clearance necessary to remove the muffler outlet pipe assembly.

2. Remove the bolts securing the outlet pipe to the intermediate support bracket.

3. Remove the clamp securing the outlet pipe to the rear support bracket.

4. Support the inlet pipe with a soft wire.

5. Remove the clamp securing the inlet pipe extension to the inlet pipe.

6. Separate the inlet pipe extension from the inlet pipe.

7. Remove the outlet pipe and muffler.

8. Replace any damaged or badly rusted parts.

INSTALLATION

1. Position the muffler and outlet pipe assembly to the rear support bracket and loosely install the clamp. (Figs. 1 through 4).

2. Position the muffler and outlet pipe assembly to the intermediate support bracket and loosely install the retaining bolts.

3. Install the inlet pipe extension to the inlet pipe and properly position the clamp. Be sure to maintain the specified clearances for the clamp and locating tab. Tighten the clamps so that they are snug, but not tight.

4. Align the exhaust system to conform to the clearance specifications (Figs. 1 through 4). Starting from the front of the muffler, torque all nuts and bolts to the specifications in Section 3 of this part.

5. Remove the temporary support wire.

6. Check the system for leaks.

7. Lower the vehicle.

INTERMEDIATE PIPE-MUFFLER-OUTLET PIPE ASSEMBLY—FALCON AND MAVERICK

REMOVAL

1. Raise the vehicle by supporting

the frame to permit the rear axle assembly to drop the full extent of its travel.

2. Loosen the inlet pipe U-bolt clamp at the end close to the transmission extension housing.

3. Support the rear end of the inlet pipe with soft wire and remove the muffler assembly attaching screws from the intermediate hanger and rear hanger assemblies.

4. Slide the intermediate pipe-muffler-outlet pipe assembly rearward to disconnect it from the inlet pipe assembly and remove it from the vehicle.

INSTALLATION

1. Position the intermediate pipe-muffler-outlet pipe assembly in the vehicle and loosely install the intermediate support to intermediate pipe bracket retaining screws.

2. Engage the forward end of the intermediate pipe with the exhaust manifold inlet pipe. Verify that the assembly slot is properly indexed with the tab on the inlet pipe. Remove the inlet pipe support wire.

3. Position the muffler rear bracket to the rear support hanger bracket and loosely install the retaining screws.

4. Position the U-bolt clamp on the rearward end of the exhaust manifold inlet pipe (close to the extension housing).

5. Position the exhaust system within the clearance specifications as shown in Fig. 5.

6. Starting at the front of the system, tighten the U-bolt clamp nuts evenly and alternately to the specified torque requirement. Tighten the intermediate and rear hanger mounting screws to the specified torque requirements.

7. Lower the vehicle and check the exhaust system for leaks.

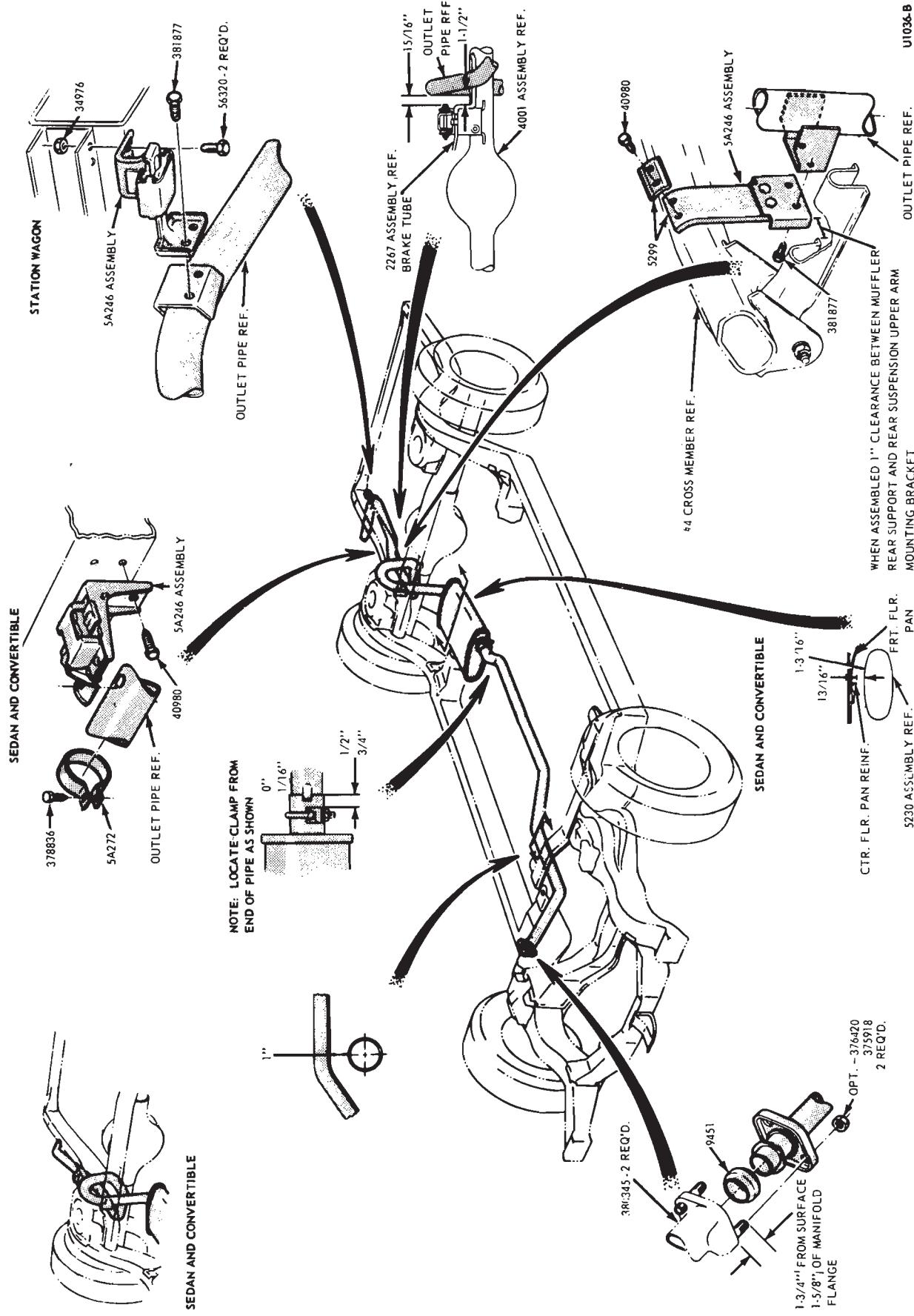


FIG. 1—Ford and Meteor Single Exhaust System—240 Six Sedan, Convertible and Station Wagon

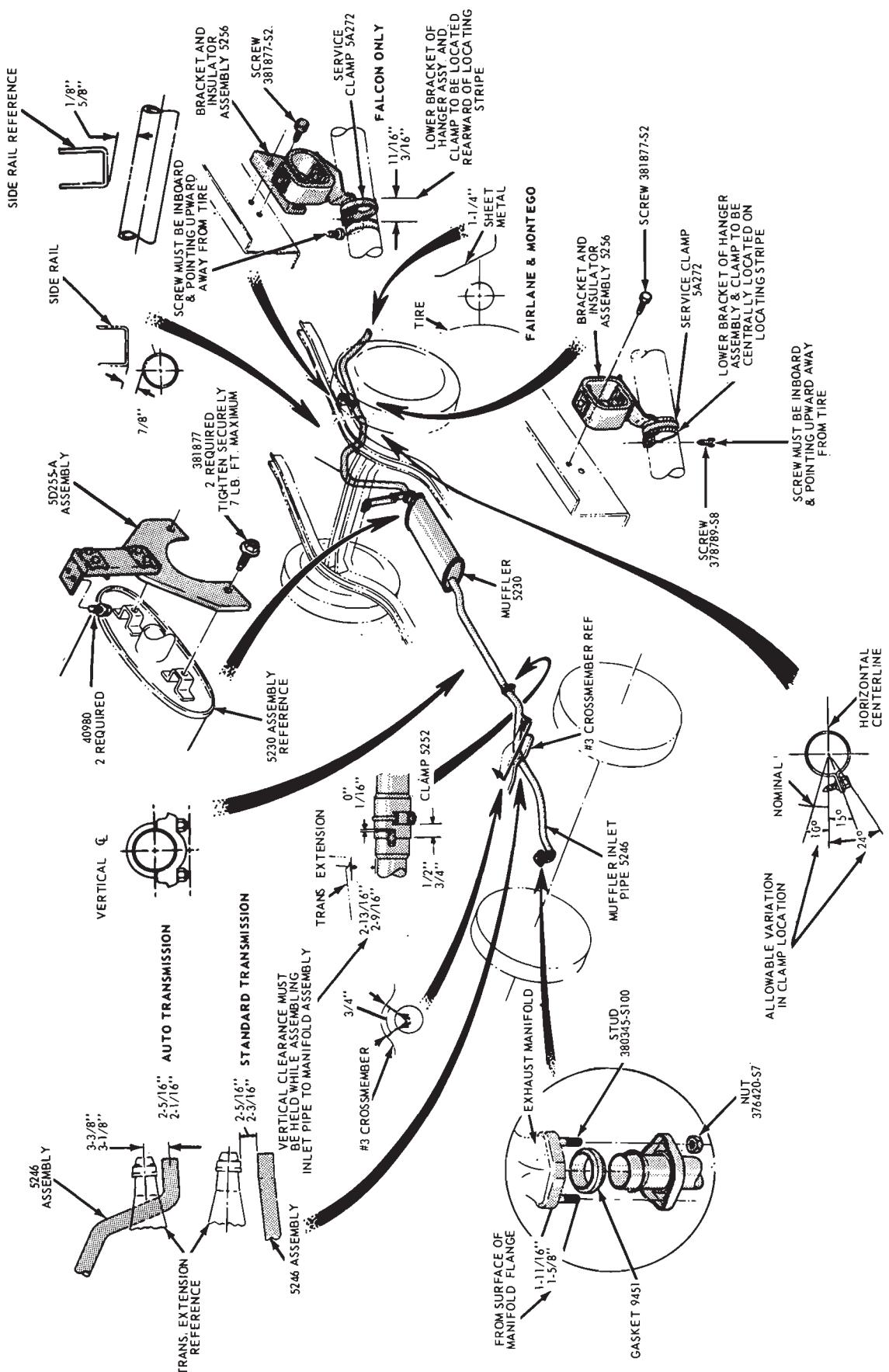
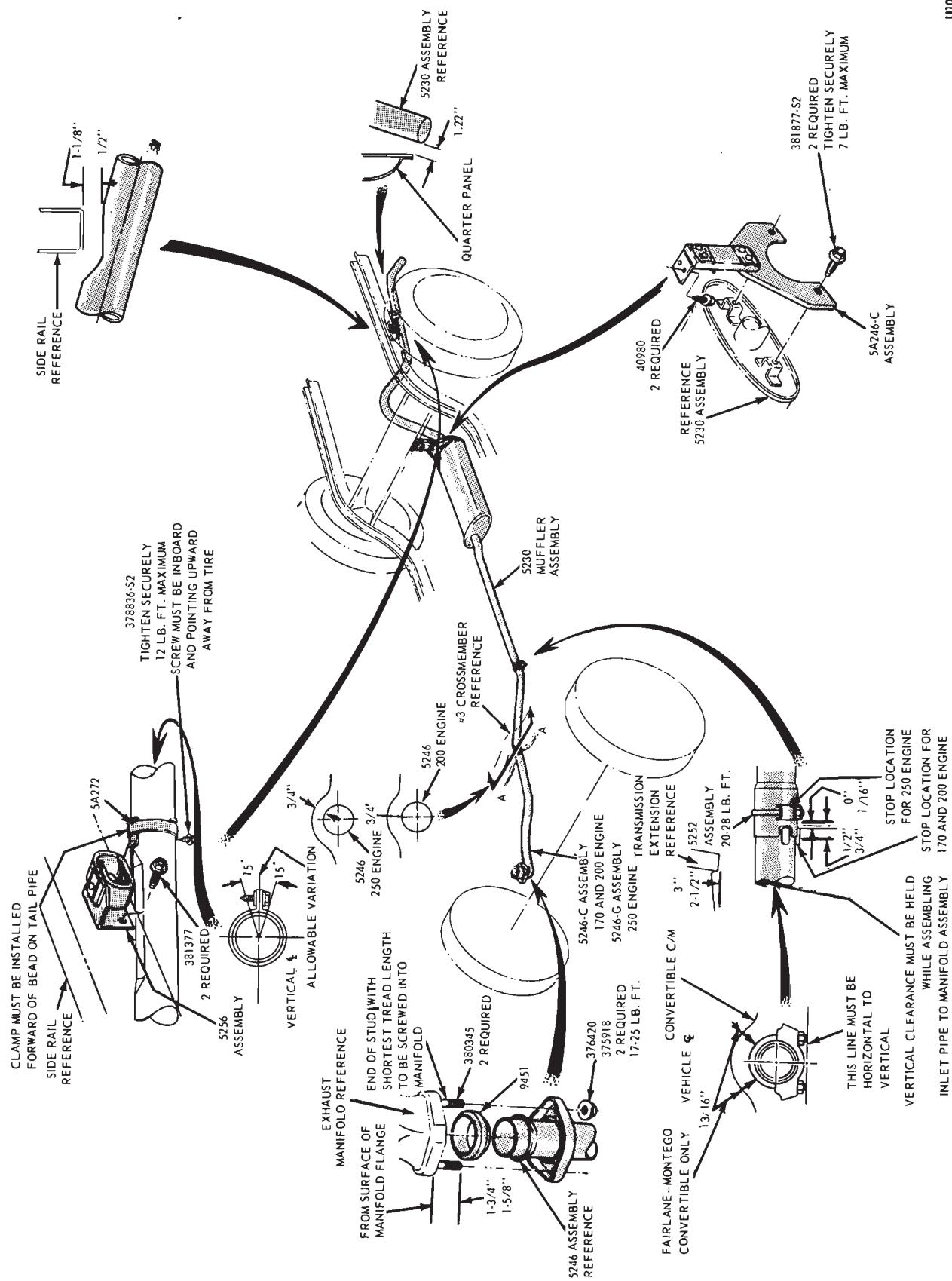


FIG. 2—Fairlane and Montego Single Exhaust System—Six Cylinder



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FIG. 3—Montego 250 Engine Single Exhaust System

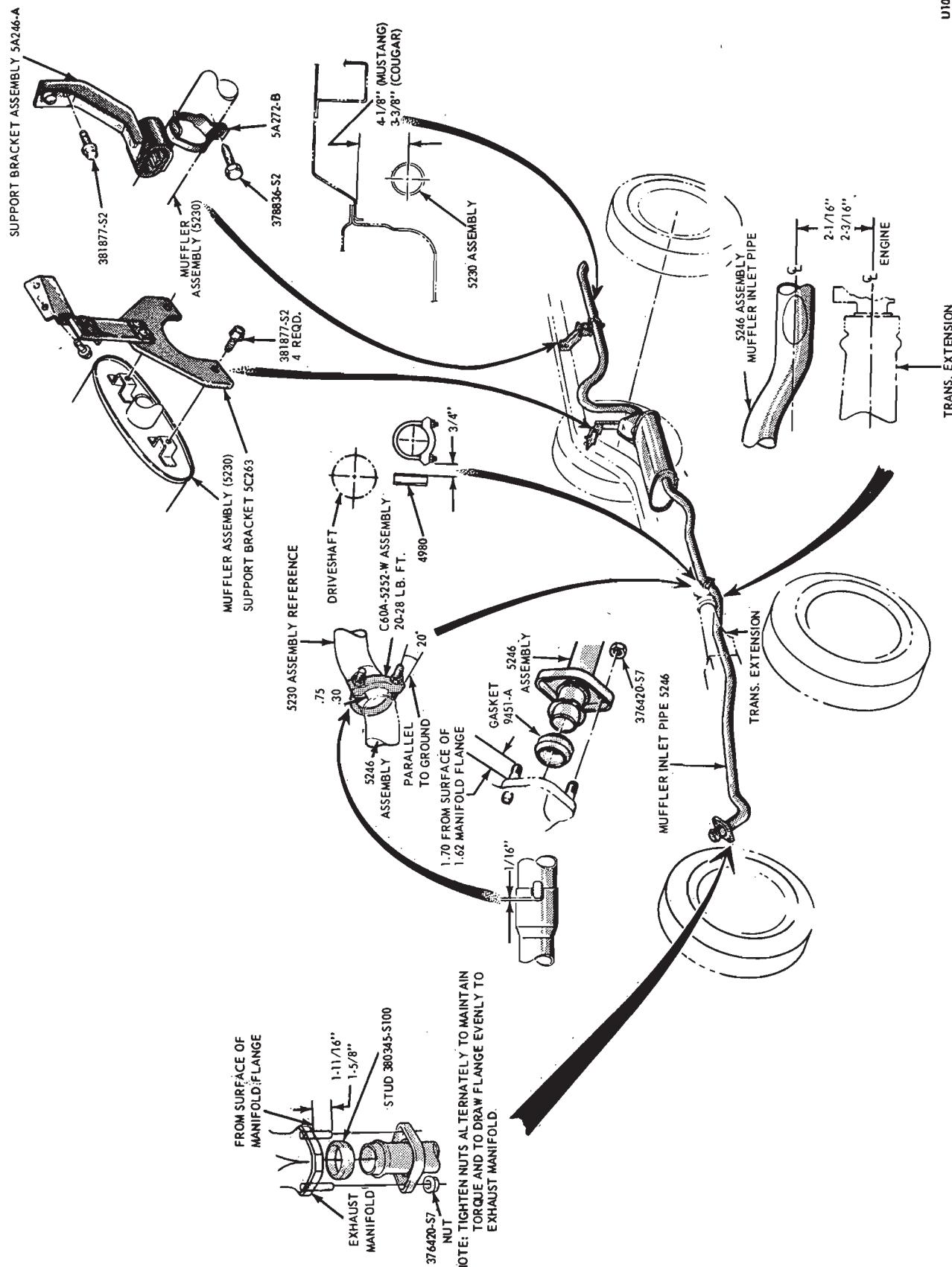


FIG. 4—Cougar and Mustang Single Exhaust System—Six Cylinder

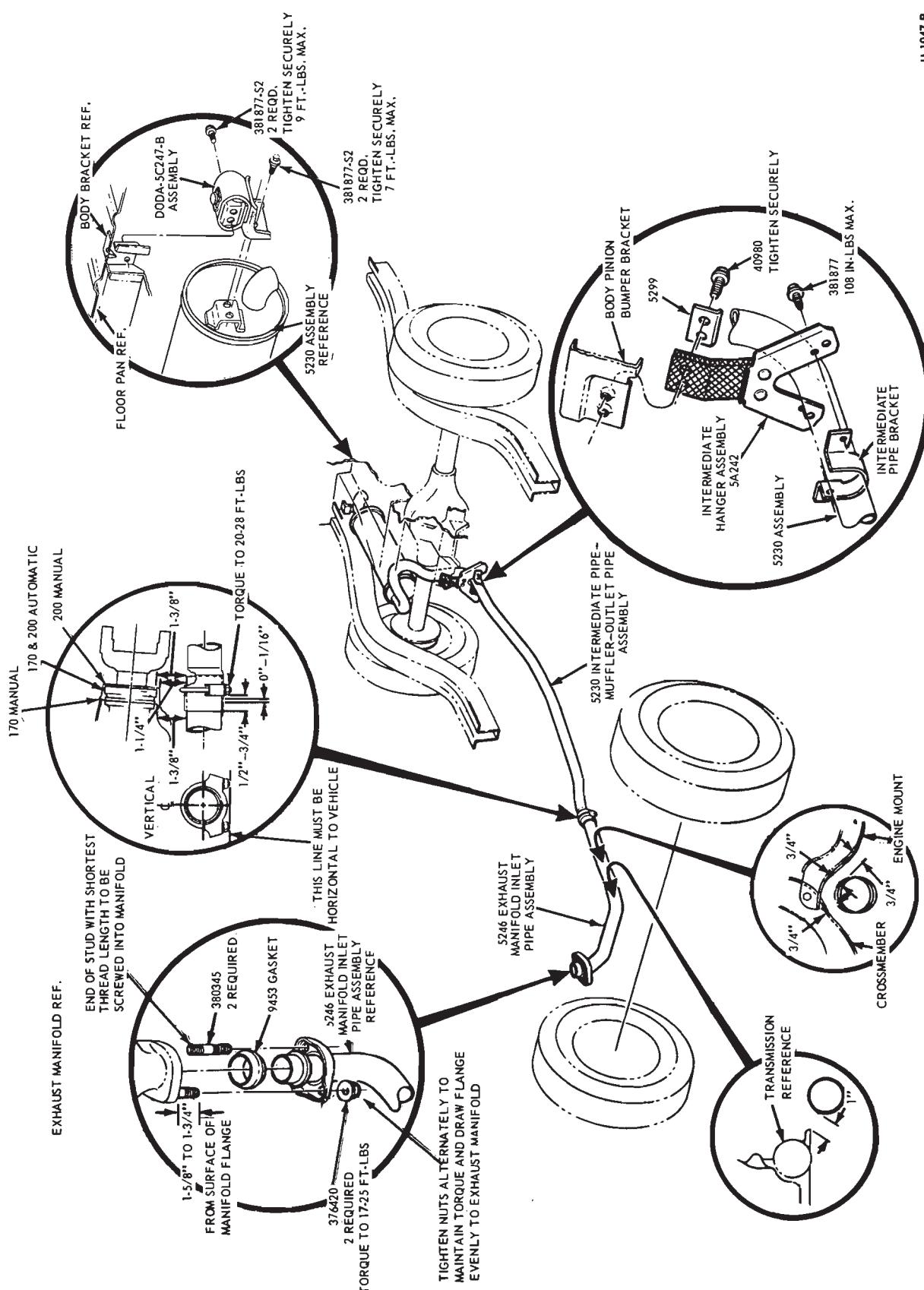


FIG. 5—Falcon and Maverick Single Exhaust System—Six Cylinder

3 SPECIFICATIONS

SIX CYLINDER SINGLE EXHAUST SYSTEMS

Component	FT.-LBS. OF TORQUE							
	Ford	Meteor	Cougar	Fairlane	Falcon	Montego	Mustang	Maverick
Inlet Pipe To Exhaust Manifold	17-25	17-25	17-25	17-25	17-25	17-25	17-25	17-25
Muffler Support Bracket			7 Max.	7 Max.	7 Max.	7 Max.	7 Max.	7 Max.
Inlet Pipe To Inlet Pipe Extension Clamp			20-28	20-28	20-28	20-28	20-28	20-28
Outlet Pipe Clamp (Rear)	12 Max.	12 Max.	12 Max.	12 Max.		12 Max.	12 Max.	
Outlet Pipe Support Bracket To Frame (Rear)				14-22		14-22		
Outlet Pipe Support Bracket To Frame (Front)	15-25	15-25						
Outlet Pipe Clamp (Front)	15-25	15-25						
Inlet Pipe To Muffler Clamp	20-28	20-28						
Inlet Pipe To Exhaust Manifold Support Clamp				14-22		14-22		
Outlet Pipe Extension Clamp, U-Bolt				20-28		20-28		
Muffler Support Bracket To Frame					9 Max.			9 Max.
Intermediate Pipe Bracket					9 Max.			9 Max.

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PART 25-03 V-8 Single Exhaust Systems

COMPONENT INDEX Applies Only to Models Indicated	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Montego	Mustang	Lincoln- Continental
INLET PIPES—EXHAUST MANIFOLD									
Description	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01
Removal and Installation	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-02
Specifications	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10
MUFFLER									
Description	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01
Removal and Installation	03-02	03-02	03-02	03-02	03-02	03-02	03-02	03-02	03-02
Specifications	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10
OUTLET PIPE									
Description	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01
Removal and Installation	03-02	03-02	03-02	03-02	03-02	03-02	03-02	03-02	03-02
Specifications	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10
RESONATOR									
Description	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01	03-01
Removal and Installation									03-02
Specifications	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10	03-10

A page number indicates that the item is for the vehicle(s) listed at the head of the column.
N/A indicates that the item is not applicable to the vehicle(s) listed.

1 DESCRIPTION

SINGLE EXHAUST SYSTEMS—V-8 ENGINES

The single exhaust system in vehicles with a 302, 351, 390 or 429 V-8 engine, consists of a Y-type inlet pipe and an inlet pipe extension, muffler and an outlet pipe assembly.

A single exhaust system is used on all Lincoln Continental models (Fig. 7).

The system consists of a Y-type muffler inlet pipe connected between the exhaust manifolds and the forward end of the muffler, a muffler and outlet pipe assembly and a reso-

nator and tailpipe assembly.

The system is supported by a front hanger assembly attached to the number four crossmember and a restrictive type bracket and insulator assembly mounted on the outer vertical surface of the rear bumper arm.

2 REPLACEMENT

The replacement procedures given apply to all vehicle models unless otherwise noted. Typical exhaust systems for the various vehicle models are shown in Figs. 1 through 7.

EXHAUST MANIFOLD INLET PIPES—EXCEPT LINCOLN CONTINENTAL EXHAUST SYSTEM

REMOVAL

1. Raise the vehicle.
2. Remove the inlet pipe clamp at the inlet pipe extension.
3. Remove the bolts securing the

outlet pipe to the intermediate support bracket.

4. Support the muffler and outlet pipe with soft wire.

5. Remove the clamp attaching the outlet pipe to the rear support bracket.

6. Separate the inlet pipe extension from the inlet pipe.

7. Remove the retaining nuts securing the inlet Y pipe to the exhaust manifolds and remove the inlet Y pipe.

8. Clean the gasket surfaces of the exhaust manifolds and inlet Y pipe.

9. Discard the gaskets and replace

any damaged parts.

INSTALLATION

1. Place a new gasket on the inlet Y pipe flanges.

2. Install the inlet Y pipe on the exhaust manifolds and loosely install the flange retaining nuts.

3. Position the outlet pipe to the intermediate and rear support brackets. Loosely install the retaining bolts.

4. Position the inlet pipe to the inlet pipe extension and loosely install the retaining clamp.

5. Align the exhaust system to con-

form to the clearance specifications (Figs. 1 through 7). Starting from the front of the system, torque all nuts and bolts to the specifications in Section 3 of this part.

6. Check the exhaust system for leaks.

7. Lower the vehicle.

INLET PIPE ASSEMBLY—LINCOLN CONTINENTAL

REMOVAL

1. Raise the vehicle.
2. Remove the U-bolt clamp at the muffler inlet (Fig. 7).
3. Remove the nuts that retain the inlet pipes to the exhaust manifold, separate the inlet pipe from the muffler and remove the inlet pipe.

INSTALLATION

1. Position new exhaust gaskets on the inlet pipe flanges (Fig. 7).
2. Position the inlet pipe to the muffler and loosely install the retaining clamp.
3. Install the inlet pipes on the exhaust manifolds and loosely install the retaining nuts.
4. Align and hold the exhaust system in conformance with the specified clearance. Use spacers as required to provide the specified clearances.
5. Tighten the manifold attaching nuts, then tighten the U-bolt assembly. Remove the clearance spacers.
6. Check the exhaust system for leaks.
7. Lower the vehicle.

MUFFLER AND OUTLET PIPE ASSEMBLY—EXCEPT LINCOLN CONTINENTAL EXHAUST SYSTEM

REMOVAL

1. Raise the vehicle on a hoist that permits the rear axle to fall to its furthest extension. This will provide the clearance necessary to remove the muffler outlet pipe assembly.
2. Remove the bolts securing the outlet pipe to the intermediate support bracket.
3. Remove the clamp securing the outlet pipe to the rear support brack-

et.

4. Support the inlet Y pipe with a soft wire.
5. Remove the clamp securing the inlet pipe extension to the inlet Y pipe.
6. Separate the inlet pipe extension from the inlet Y pipe.
7. Remove the outlet pipe and muffler.
8. Replace any damaged or badly rusted parts.

INSTALLATION

1. Position the muffler and outlet pipe assembly to the rear support bracket and loosely install the clamp (Figs. 1 through 6).
2. Position the muffler and outlet pipe assembly to the intermediate support bracket and loosely install the retaining bolts.
3. Install the inlet pipe extension to the inlet Y pipe and properly position the clamp. Be sure to maintain the specified clearances for the clamp and locating tab. Tighten the clamps so that they are snug, but not tight.
4. Align the exhaust system to conform to the clearance specifications (Figs. 1 through 6). Starting from the front of the muffler, torque all nuts and bolts to the specifications in Section 3 of this part.
5. Remove the temporary support wire.
6. Check the system for leaks.
7. Lower the vehicle.

MUFFLER AND OUTLET PIPE ASSEMBLY—LINCOLN CONTINENTAL

REMOVAL

1. Raise the vehicle on a hoist that allows the rear axle to drop its complete travel.
2. Remove the bolts that retain the outlet pipe to the front hanger assembly (Fig. 7).
3. Remove the retaining nuts that secure the muffler outlet pipe flange to the resonator flange.
4. Support the inlet pipe and the resonator flange with soft wires.
5. Remove the pipe clamp that retains the inlet pipe to the muffler.
6. Separate the outlet pipe from

the muffler.

7. Remove the muffler and outlet pipe assembly from the vehicle.

INSTALLATION

1. Install the muffler to the inlet pipe and loosely install the U-bolt clamp (Fig. 7).
2. Install the outlet pipe flange to the resonator flange and loosely assemble a new gasket and the flange retaining nuts.
3. Loosely install the tapping screws that retain the outlet pipe to the front support hanger assembly.
4. Align the exhaust system to conform to the clearance specifications shown in Fig. 7.
5. Starting from the front, tighten the clamps and bolts and nuts to the specified torque.
6. Check the exhaust for leaks.
7. Lower the vehicle.

RESONATOR AND TAILPIPE ASSEMBLY—LINCOLN CONTINENTAL

REMOVAL

1. Raise the vehicle.
2. Remove the inlet pipe nuts at the resonator flange (Fig. 7).
3. Remove the tailpipe clamp from the rearward end of the resonator.
4. Separate the resonator and tailpipe assembly from the inlet pipe flange and remove from the vehicle.

INSTALLATION

1. Install the resonator and tailpipe assembly on the inlet pipe flange (Fig. 7). Use a new gasket and loosely install the flange nuts on the flange studs.
2. Loosely install the rear clamp on the resonator tailpipe.
3. Install the tailpipe clamp on the resonator tailpipe.
4. Align the resonator and tailpipe assembly to conform to the clearance specifications shown in Fig. 7.
5. Tighten the flange nuts and the rear hanger bracket clamp screw to specification.
6. Check the exhaust system for leaks.
7. Lower the vehicle.

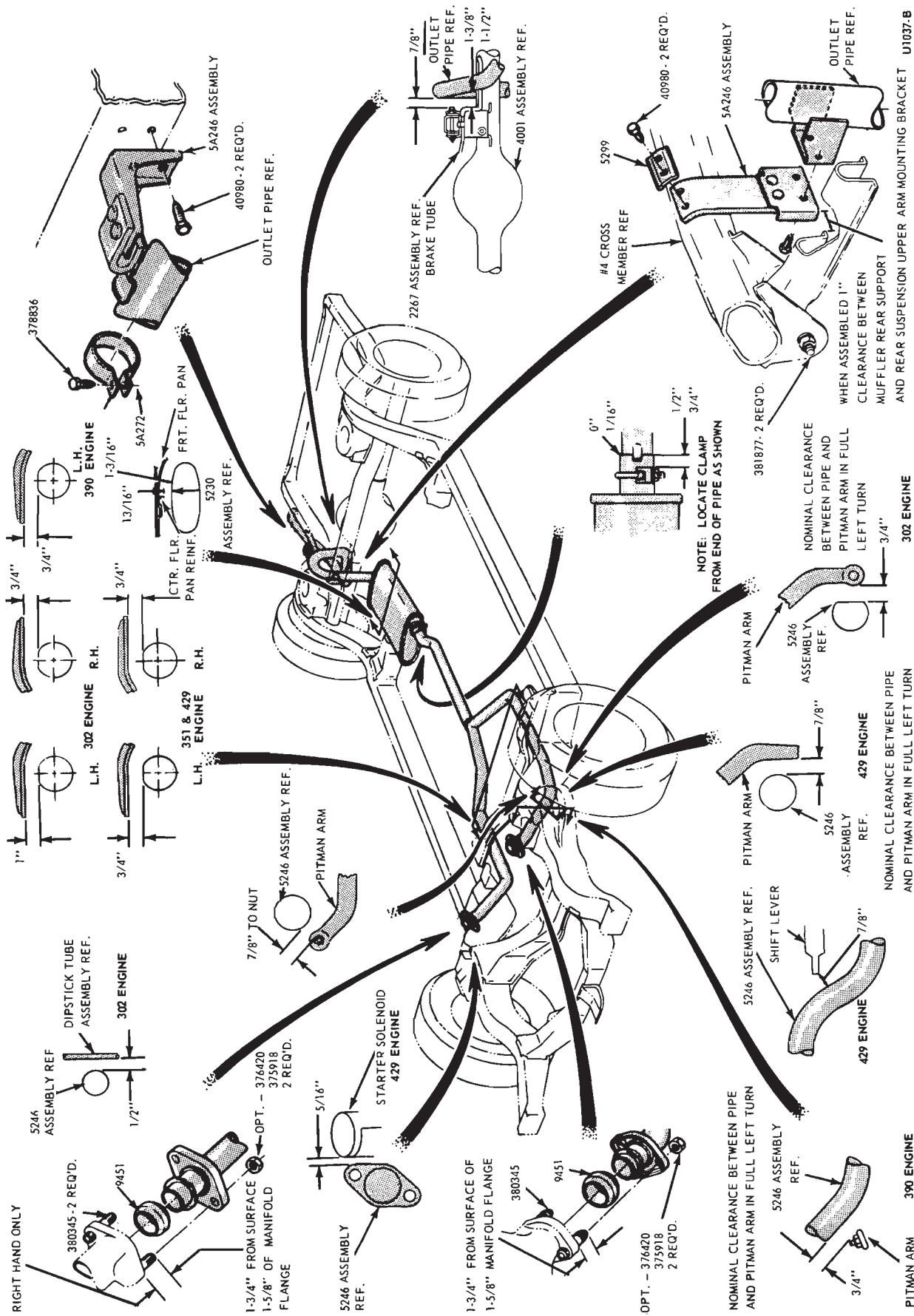


FIG. 1—Ford, Mercury and Meteor Single Exhaust—Sedan and Convertible V-8 Engines

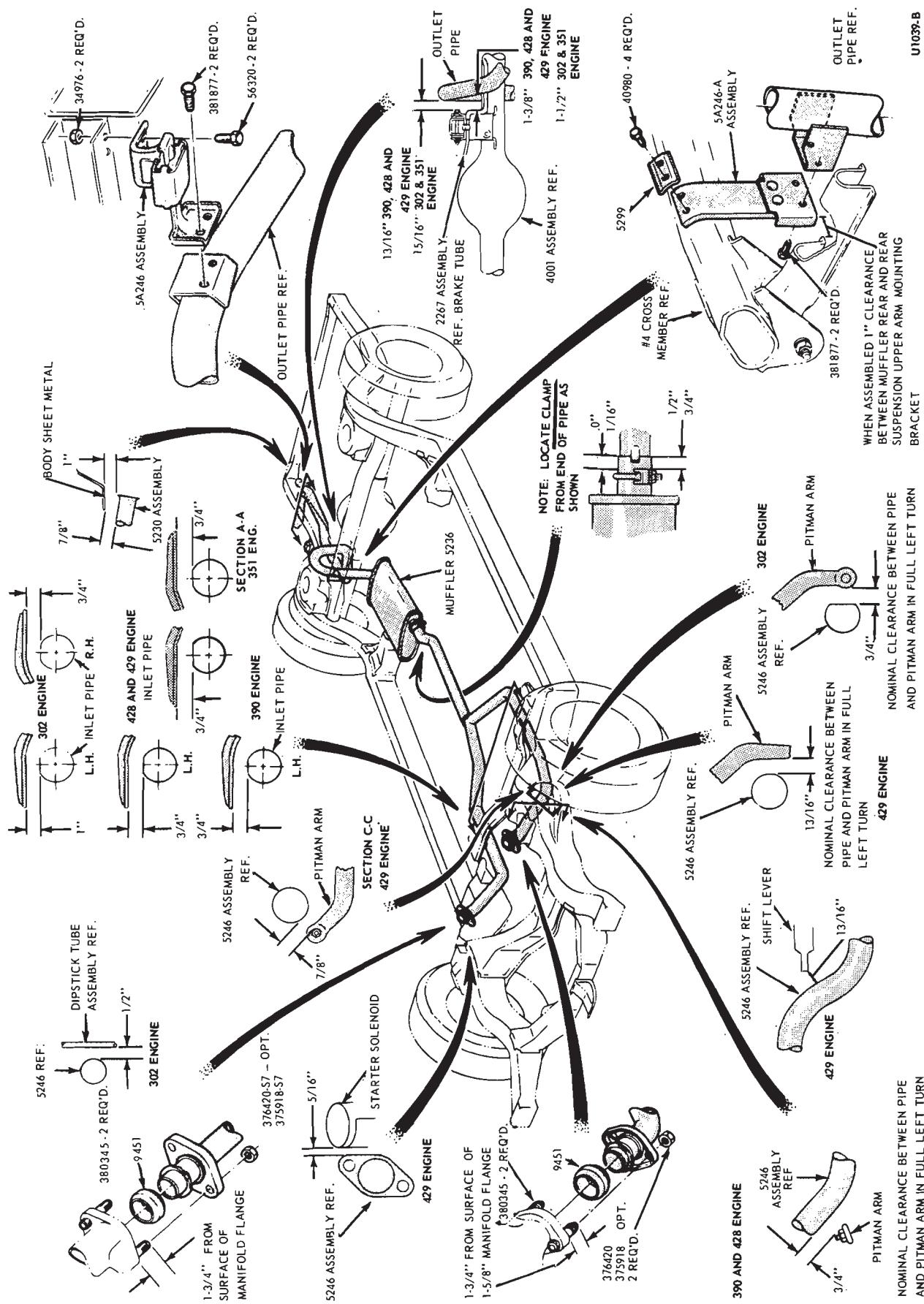


FIG. 2—Ford, Mercury and Meteor Single Exhaust System—Station Wagon V-8 Engines

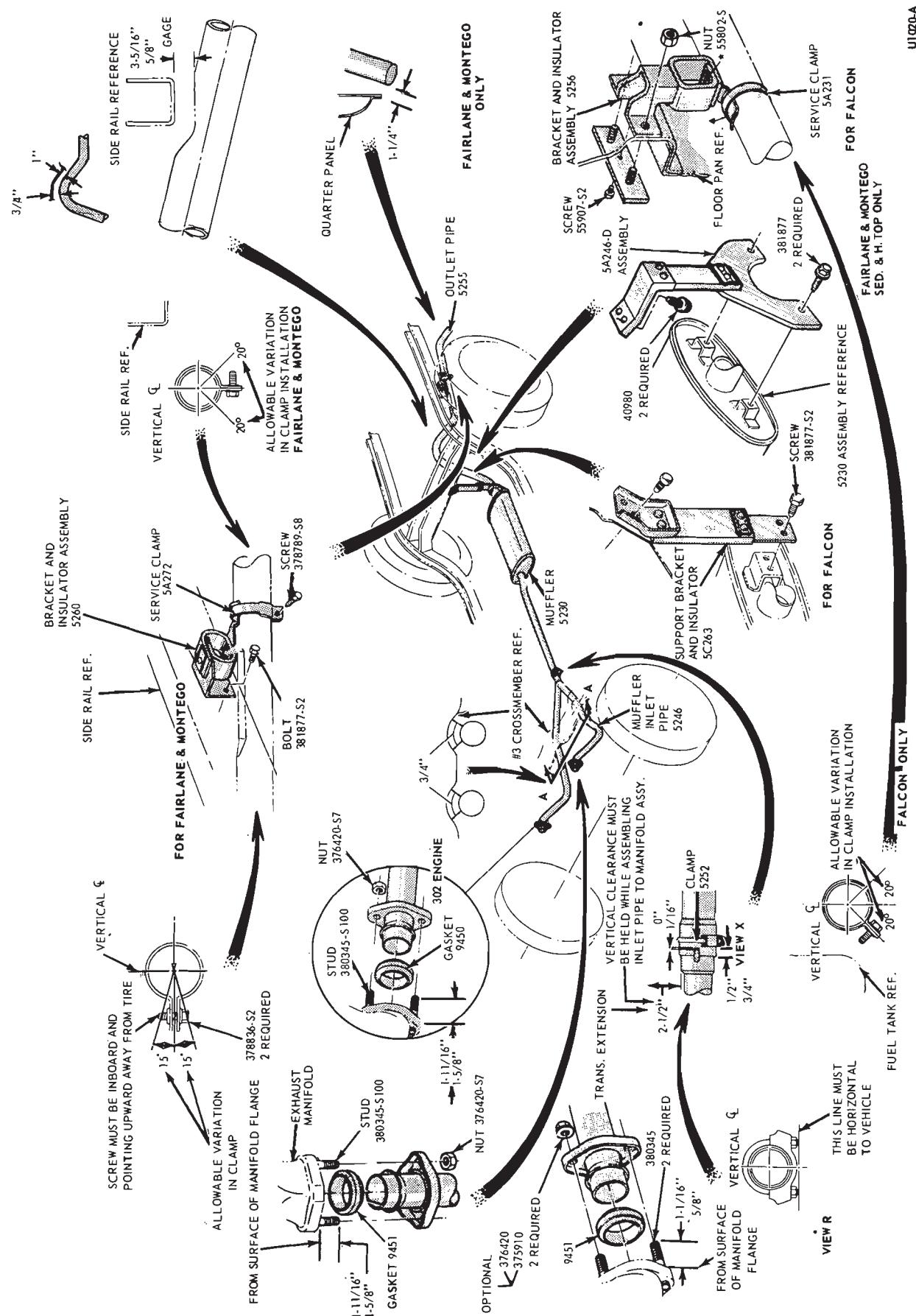


FIG. 3—Falcon 302, Fairlane and Montego 302 and 351 V-8 Single Exhaust System—Sedan, Hardtop and Convertible

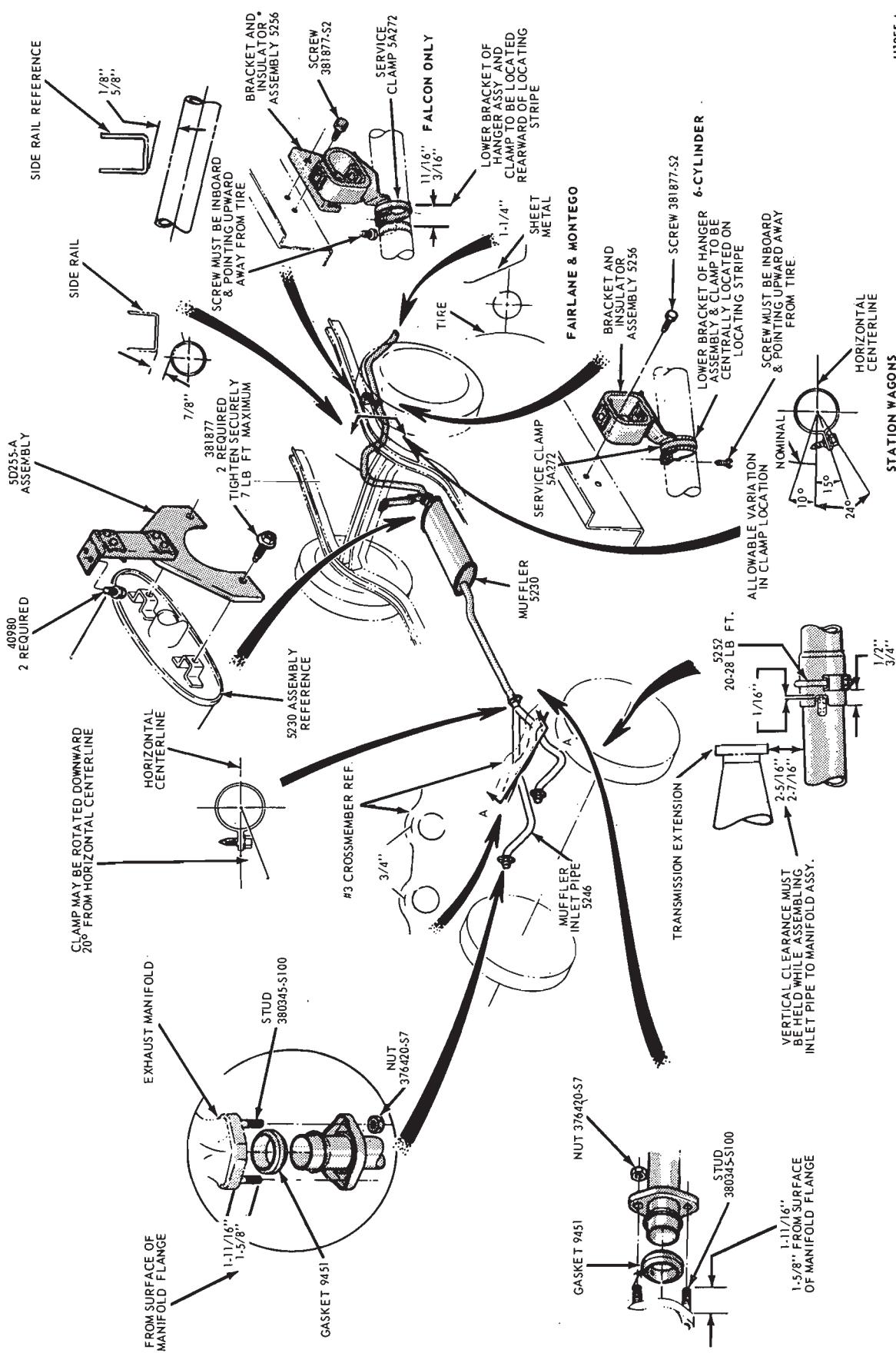


FIG. 4—Falcon, Fairlane and Montego Single Exhaust System—302 V-8 Station Wagon

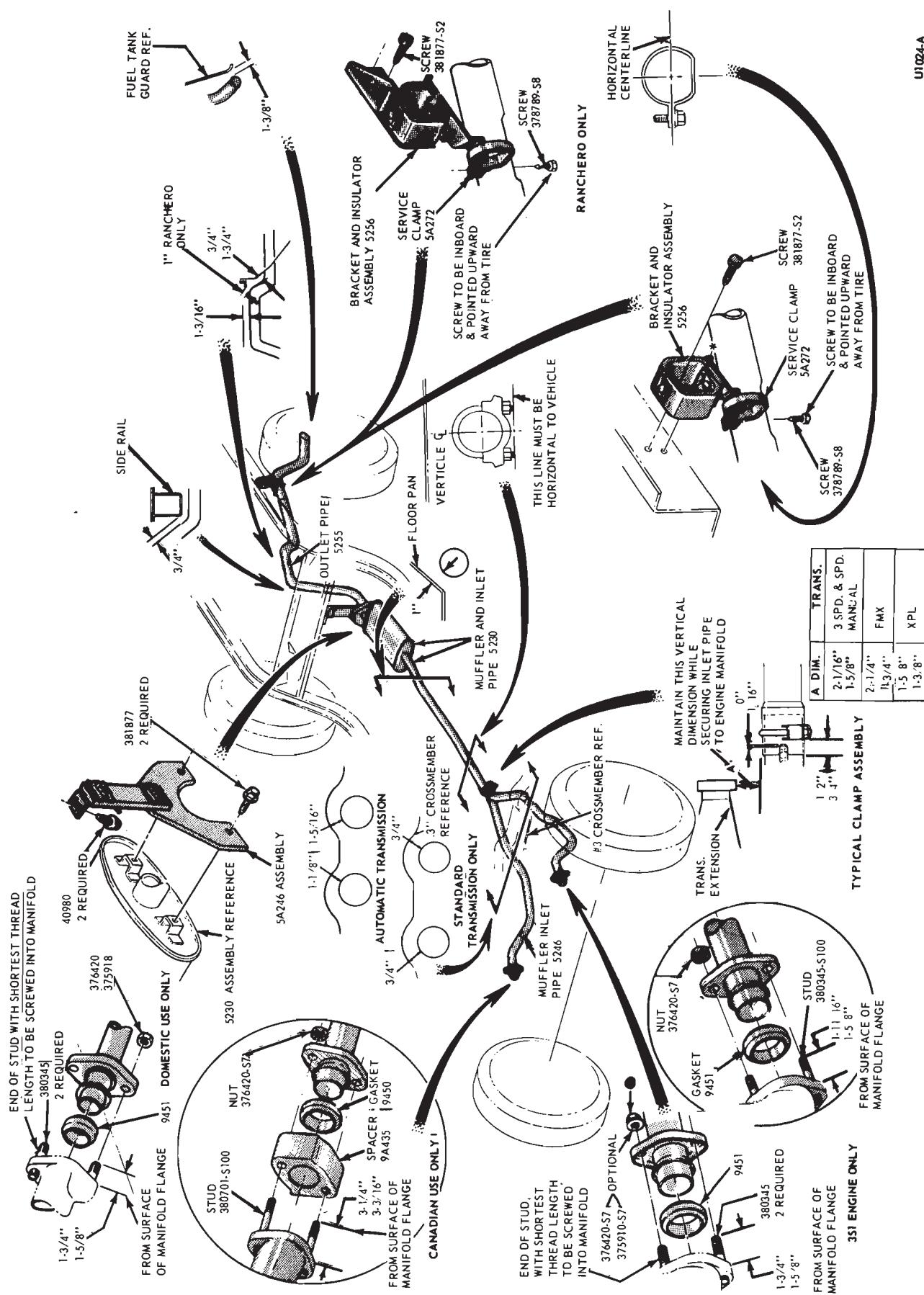


FIG. 5—Fairlane and Montego Single Exhaust System—351 and 390 V-8 Station Wagon

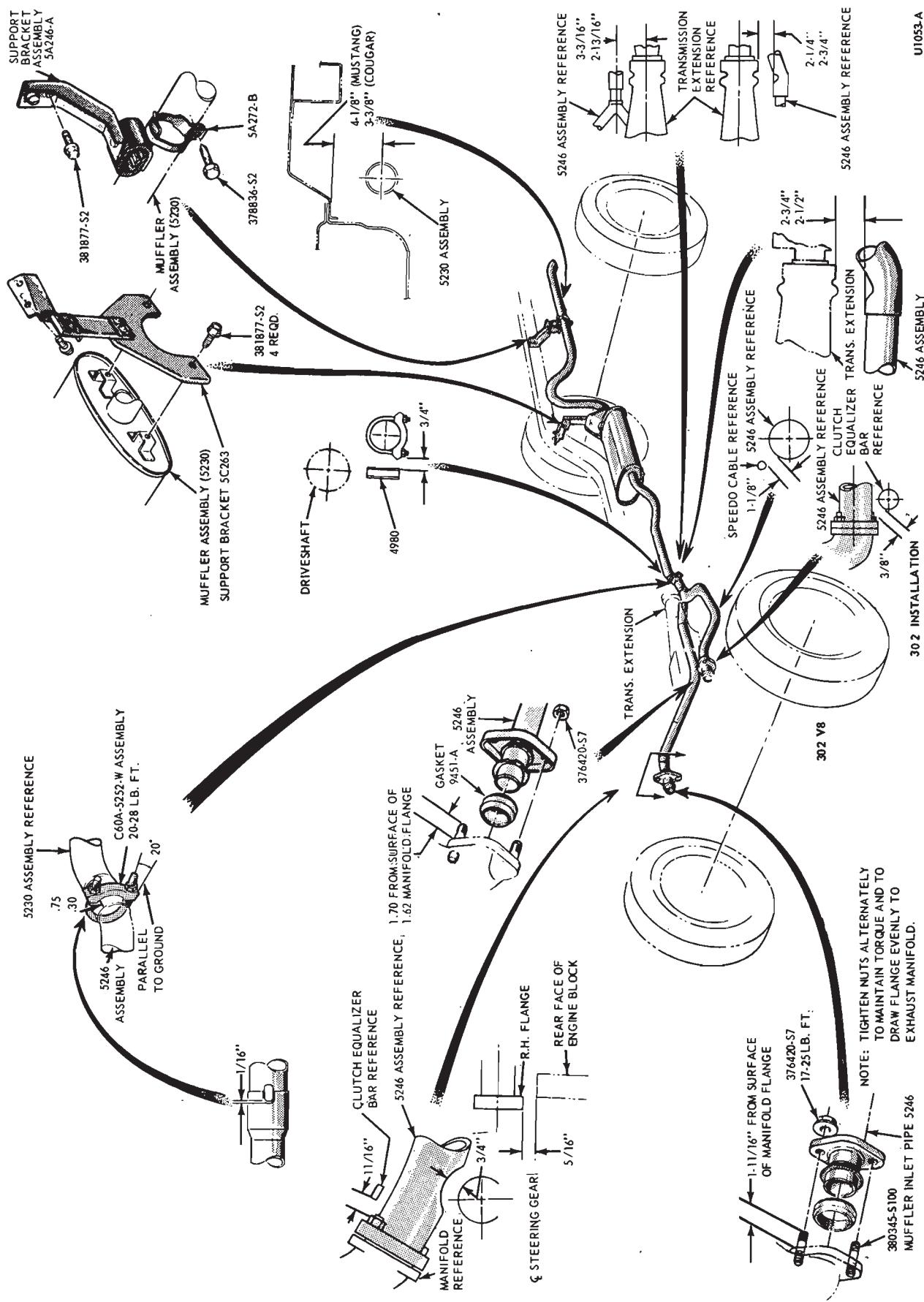


FIG. 6—Cougar and Mustang Single Exhaust System—302 and 351 2V V-8 Engines

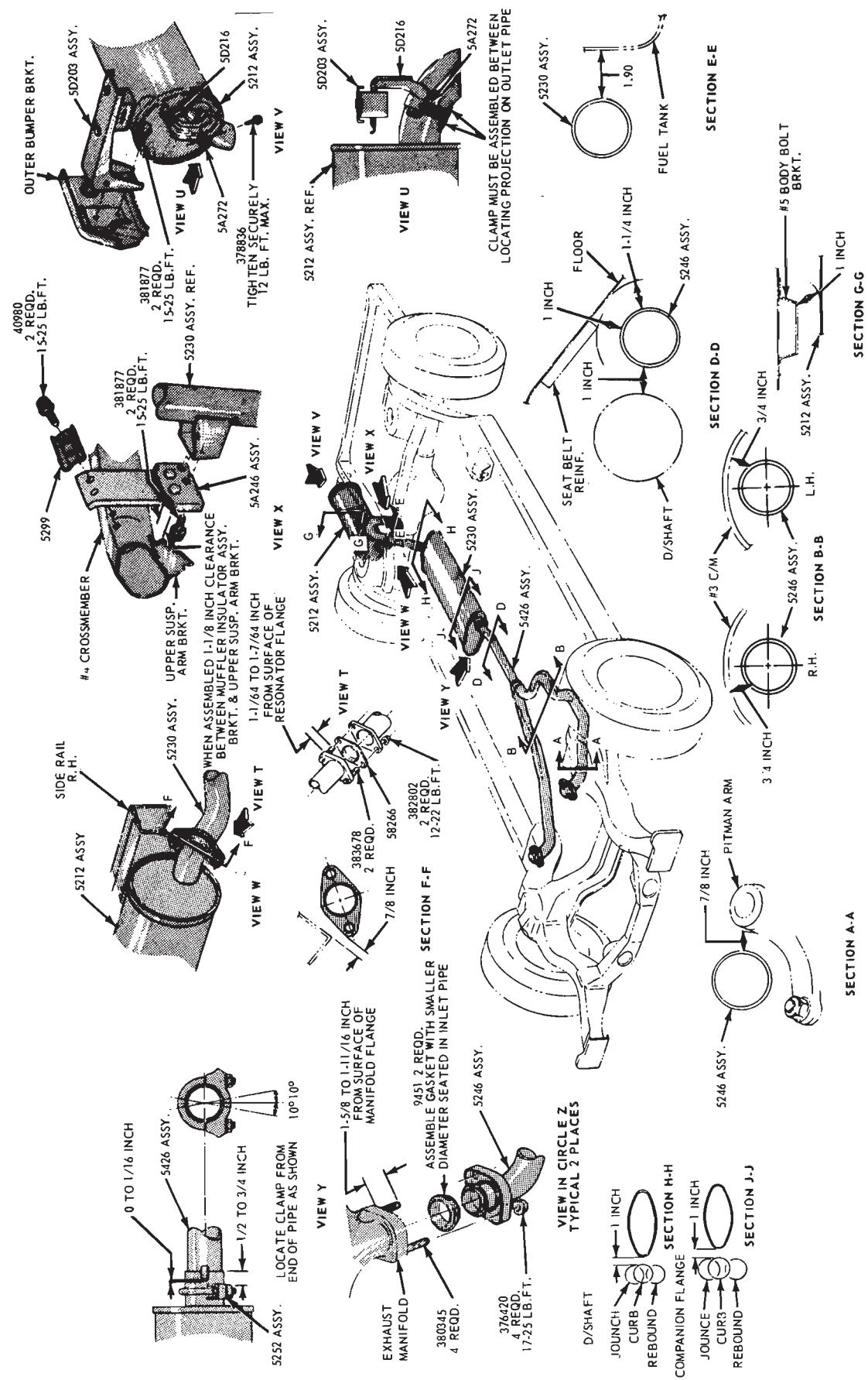


FIG. 7—Lincoln Continental Single Exhaust System—460 Engine

3 SPECIFICATIONS

V-8 SINGLE EXHAUST SYSTEMS

COMPONENT	FT.-LBS. OF TORQUE								
	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Montego	Mustang	Lincoln Continental
Inlet Pipe To Exhaust Manifold	17-25	17-25	17-25	17-25	17-25	17-25	17-25	17-25	17-25
Muffler Support Bracket				7 Max.	7 Max.	7 Max.	7 Max.	7 Max.	
Inlet Pipe To Inlet Pipe Extension Clamp				20-28	20-28	20-28	20-28	20-28	
Outlet Pipe Clamp (Rear)	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.
Outlet Pipe Support Bracket To Frame (Rear)					14-22	14-22	14-22		15-25
Outlet Pipe Support Bracket To Frame (Front)	15-25	15-25	15-25						15-25
Outlet Pipe Clamp (Front)	15-25	15-25	15-25						
Inlet Pipe To Muffler Clamp	20-28	20-28	20-28						
Inlet Pipe Clamp To Resonator									12 Max.
Resonator To Resonator Connection Clamp									20-28
Outlet Pipe Extension Clamp, U-Bolt					20-28	20-28	20-28		

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PART 25-04 V-8 Dual Exhaust Systems

COMPONENT INDEX Applies Only to Models Indicated	Ford	Mercury	Meteor	Cougar	Fairlane	Montego	Mustang	Thunderbird	Continental-Mark III
INLET PIPES—EXHAUST MANIFOLD									
Description	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01
Removal and Installation	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01
Specifications	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11
MUFFLERS									
Description	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01
Removal and Installation	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02
Specifications	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11
OUTLET PIPES									
Description	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01
Removal and Installation	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02
Specifications	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11
RESONATORS									
Description	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01	04-01
Removal and Installation	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02
Specifications	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11	04-11

A page number indicates that the item is for the vehicle(s) listed at the head of the column.

N/A indicates that the item is not applicable to the vehicle(s) listed.

1 DESCRIPTION

DUAL EXHAUST SYSTEMS—V-8 ENGINES

The dual exhaust system in vehicles other than the Mustang consist of an H-type inlet pipe and an inlet pipe ex-

tension, muffler, and outlet pipe for each side. The Thunderbird and Continental Mark III also have resonators located on each side in the exhaust system.

The Mustang dual exhaust system,

consists of an H-type inlet pipe, inlet pipe extension, resonator and resonator-to-muffler pipe assemblies, muffler, and outlet extensions. The GT performance option has outlet pipe extensions.

2 REPLACEMENT

The replacement procedures given apply to all vehicle models and to right and left assemblies of dual exhaust systems unless otherwise noted. Typical exhaust systems for the various vehicle models are shown in Figs. 1 through 8.

EXHAUST MANIFOLD INLET PIPES

REMOVAL

- Raise the vehicle.
- Remove the inlet pipe clamps at the inlet pipe extensions.
- Remove the bolts securing the outlet pipes (resonator-to-muffler pipe

on Mustang) to the intermediate support brackets.

- Support the muffler and outlet pipes with soft wire.
- Remove the clamps attaching the outlet pipes to the rear support brackets.
- Separate the inlet pipe extensions from the inlet pipes.
- Remove the retaining nuts securing the inlet pipes to the exhaust manifolds and remove the inlet pipes.
- Clean the gasket surfaces of the exhaust manifolds and inlet pipes.
- Discard the gaskets and replace any damaged parts.

INSTALLATION

- Place new gaskets on the inlet pipe flanges.
- Install the inlet pipes on the exhaust manifolds and loosely install the flange retaining nuts.
- Position the outlet pipes to the intermediate and rear support brackets. Loosely install the retaining bolts.
- Position the inlet pipes to the inlet pipe extensions and loosely install the retaining clamps.
- Align the exhaust system to conform to the clearance specifications (Figs. 1 through 8). Starting from the front of the system, torque all nuts

and bolts to the specifications in Section 3 of this part.

6. Check the exhaust system for leaks.

7. Lower the vehicle.

MUFFLER AND OUTLET PIPE ASSEMBLY (EXCEPT MUSTANG DUAL EXHAUST SYSTEM)

REMOVAL

1. Raise the vehicle on a hoist that permits the rear axle to fall to its furthest extension. This will provide the clearance necessary to remove the muffler outlet pipe assembly.

2. Remove the bolts securing the outlet pipe(s) to the intermediate support bracket(s).

3. Remove the clamp(s) securing the outlet pipe(s) to the rear support bracket(s).

4. Support the inlet pipe(s) with a soft wire.

5. Remove the clamp(s) securing the inlet pipe extension(s) to the inlet pipe(s).

6. Separate the inlet pipe extension(s) from the inlet pipe(s).

7. Remove the outlet pipe(s) and muffler(s).

8. Replace any damaged or badly rusted parts.

INSTALLATION

1. Position the muffler and outlet pipe assembly(s) to the rear support bracket(s) and loosely install the clamp(s). (Figs. 1 through 5 and Figs. 7 and 8).

2. Position the muffler and outlet pipe assembly(s) to the intermediate support bracket(s) and loosely install the retaining bolts.

3. Install the inlet pipe extension(s) to the inlet pipe(s) and properly position the clamp(s). Be sure to maintain the specified clearances for the clamp(s) and locating tab(s). Tighten the clamps so that they are snug, but not tight.

4. Align the exhaust system to conform to the clearance specifications. Starting from the front of the muffler, torque all nuts and bolts to the specifications in Section 3 of this part.

5. Remove the temporary support wire.

6. Check the system for leaks.

7. Lower the vehicle.

MUFFLER—MUSTANG DUAL EXHAUST SYSTEM

REMOVAL

1. Raise the vehicle.

2. Remove the clamps securing the resonator-to-muffler pipes to the muffler (Fig. 6).

3. Remove the clamps securing the outlet pipes to the muffler.

4. Temporarily support the system with soft wire.

5. Separate the muffler from the resonator-to-muffler pipes and the outlet pipes. Remove the muffler from the vehicle.

INSTALLATION

1. Position the muffler to the resonator-to-muffler pipes and the outlet pipes.

2. Loosely install the clamps securing the outlet pipes to the muffler.

3. Loosely install the clamps securing the resonator-to-muffler pipes to the muffler.

4. Align the exhaust system to conform to the clearance specifications (Fig. 6). Starting from the front of the system, torque all nuts and bolts to the specifications in Section 3 of this part.

5. Remove the temporary support wire.

6. Check the system for leaks.

7. Lower the vehicle.

OUTLET PIPE(S) AND EXTENSION(S)—MUSTANG DUAL EXHAUST SYSTEM

REMOVAL

1. Raise the vehicle.

2. Remove the clamps securing the outlet pipe(s) to the muffler.

3. Remove the clamp(s) securing the outlet pipe extension(s) to the rear support bracket(s).

4. Temporarily support the muffler with soft wire.

5. Separate the outlet pipe(s) from the muffler and remove.

INSTALLATION

1. Position the outlet pipe(s) and extension(s) to the muffler and loosely install the retaining clamp(s).

2. Position the outlet pipe exten-

sion(s) to the rear support bracket(s) and loosely install the retaining clamp(s).

3. Remove the temporary support bracket.

4. Align the outlet pipe(s) to conform to the clearance specifications (Fig. 6). Torque the clamps to specifications.

5. Check the system for leaks.

6. Lower the vehicle.

RESONATORS

REMOVAL

1. Raise the vehicle.

2. Remove the inlet pipe clamp(s) at the inlet pipe extension(s). (Figs. 6, 7 and 8).

3. Remove the clamp(s) at the muffler securing the resonator-to-muffler pipe(s).

4. Remove the bolts securing the resonator-to-muffler pipe(s) to the intermediate support bracket(s).

5. Support the muffler, outlet pipes and inlet pipe(s) with soft wire.

6. Separate the resonator-to-muffler pipe(s) from the muffler.

7. Separate the inlet pipe extension(s) from the inlet pipe(s) and remove the resonator assembly(s) from the vehicle.

8. Replace any damaged or badly rusted parts.

INSTALLATION

1. Install the inlet pipe extension(s) to the inlet pipe. Tighten the clamp so that it is snug, but not tight.

2. Connect the inlet pipe extension to the resonators. Install the resonator-to-muffler pipe(s) to the muffler(s). Be sure that all dimensional specifications are maintained (Figs. 6, 7 and 8).

3. Loosely install the bolts securing the resonator-to-muffler pipe(s) to the intermediate support bracket(s).

4. Align the exhaust system to conform to the clearance specifications (Figs. 6, 7 and 8). Starting from the front of the system and working rearward, torque all nuts and bolts to the specifications in Section 3 of this part.

5. Remove the temporary support wires.

6. Check the system for leaks.

7. Lower the vehicle.

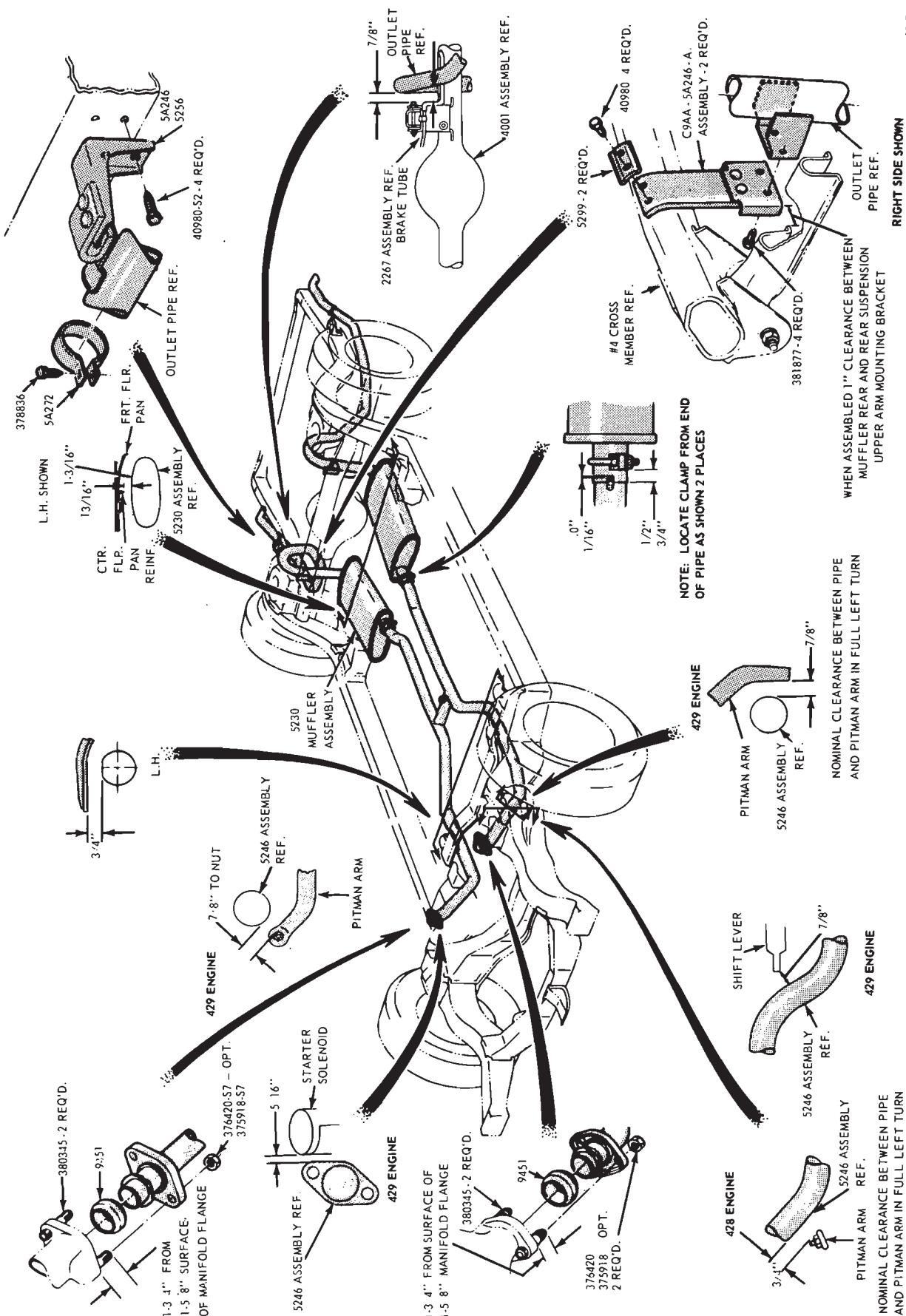


FIG. 1—Ford, Mercury and Meteor Dual Exhaust System—Sedan and Convertible—428 and 429 Engines

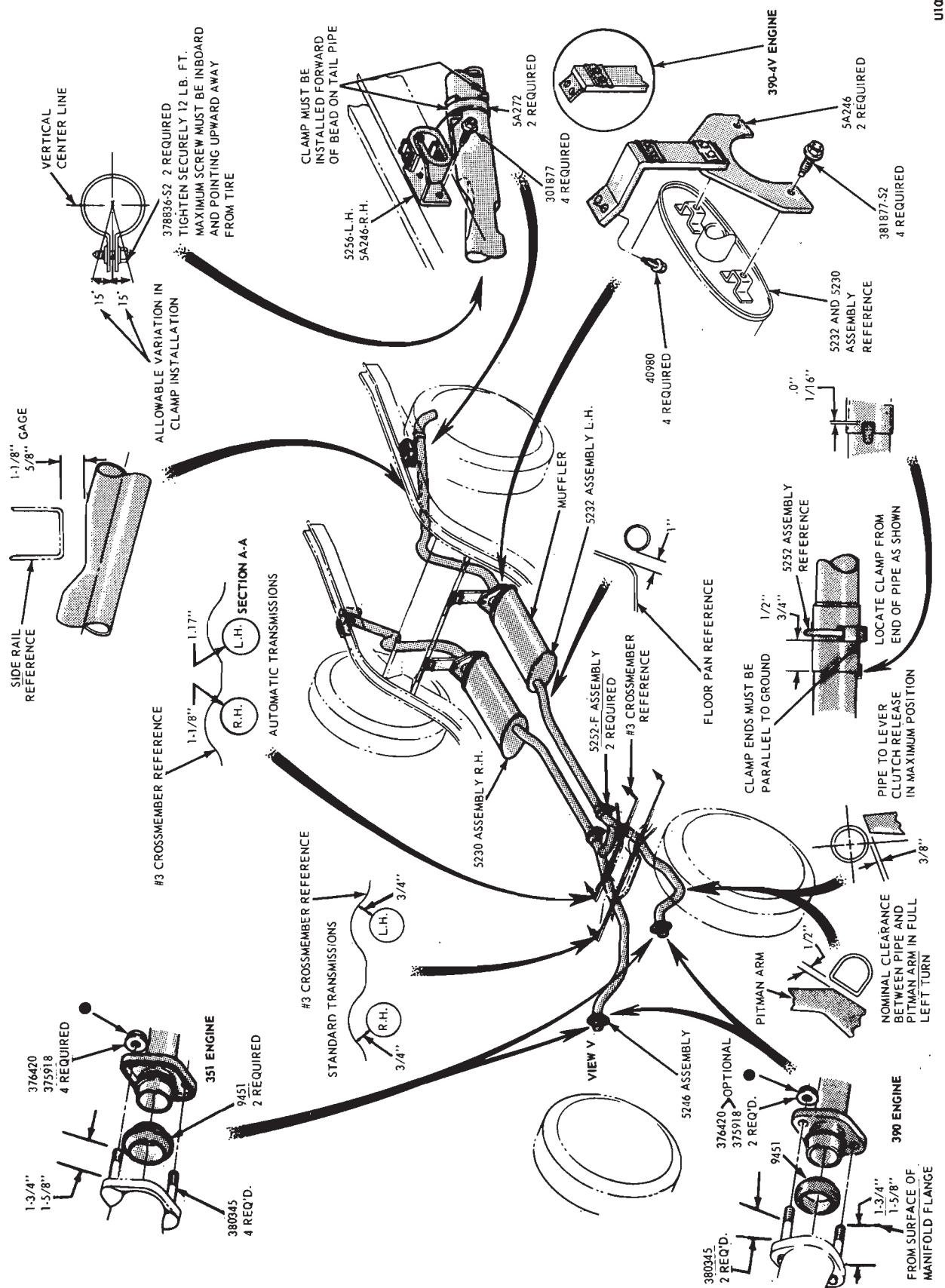


FIG. 2—Fairlane and Montego Dual Exhaust System—351 and 390 Engines

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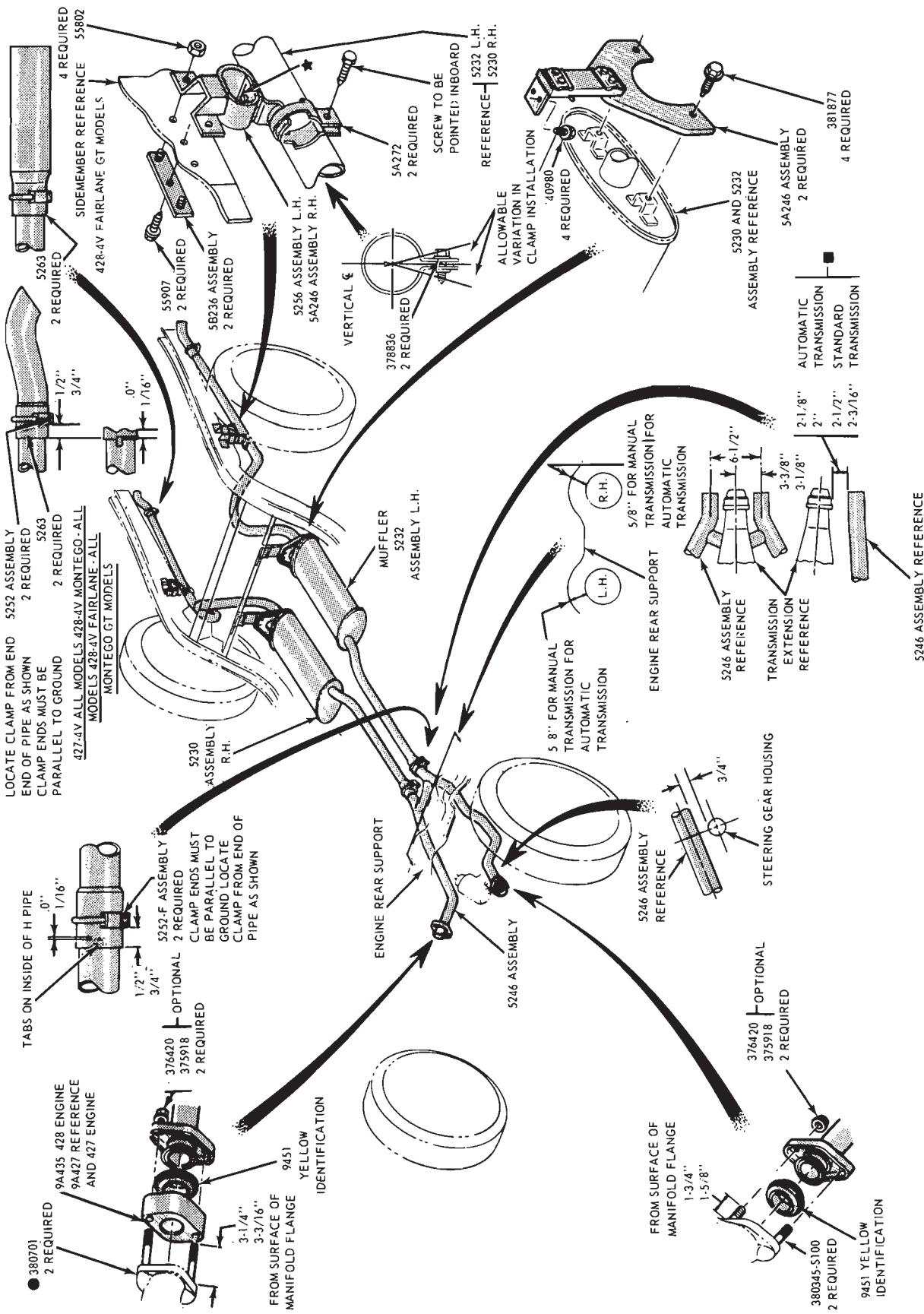


FIG. 3—Fairlane and蒙特卡罗Dual Exhaust System—427 Hardtop and Sedan

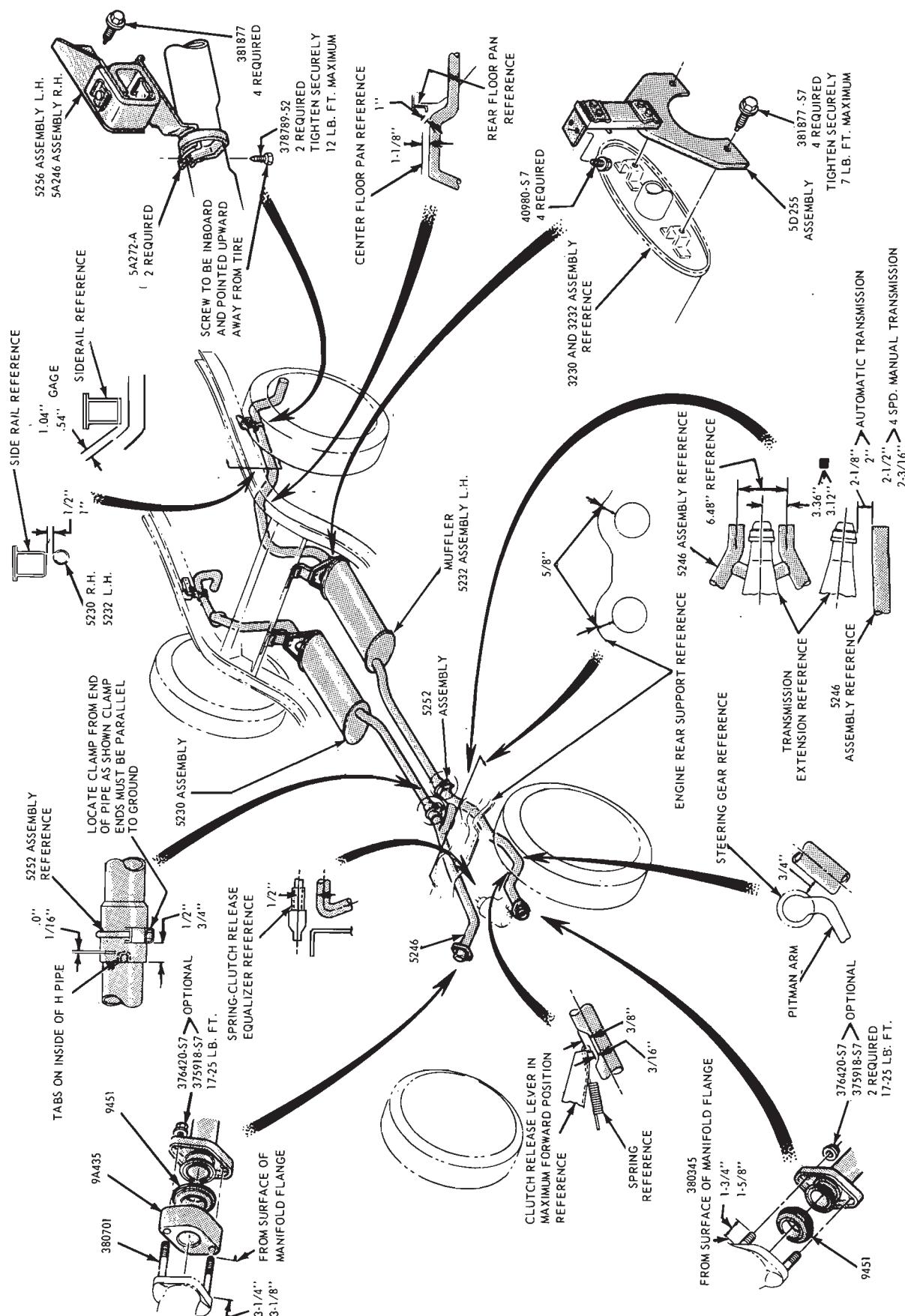


FIG. 4—Fairlane Dual Exhaust System—428 Cobra Jet Engine

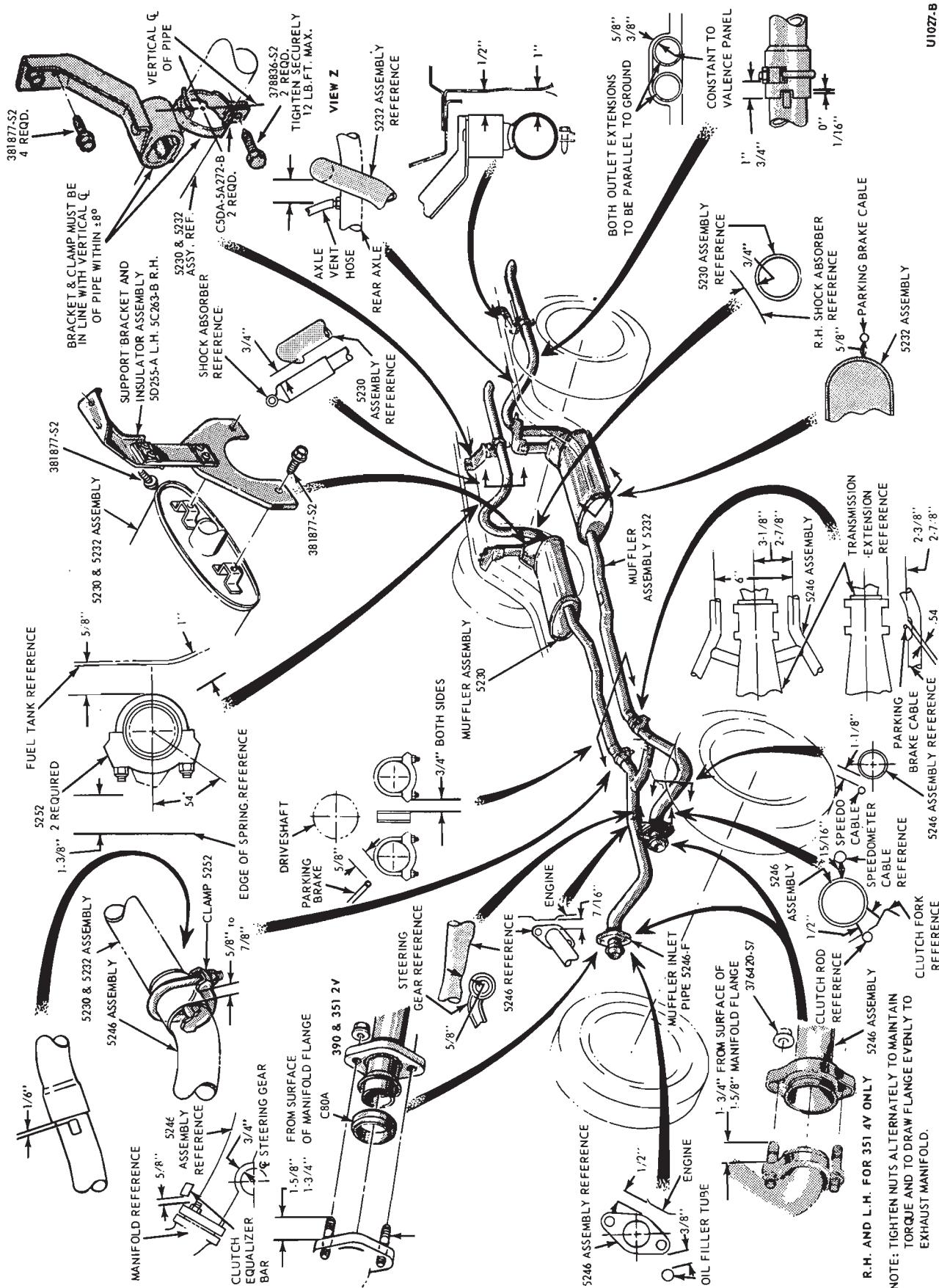


FIG. 5—Cougar Dual Exhaust System—351, 390 and 428 V-8 Engines

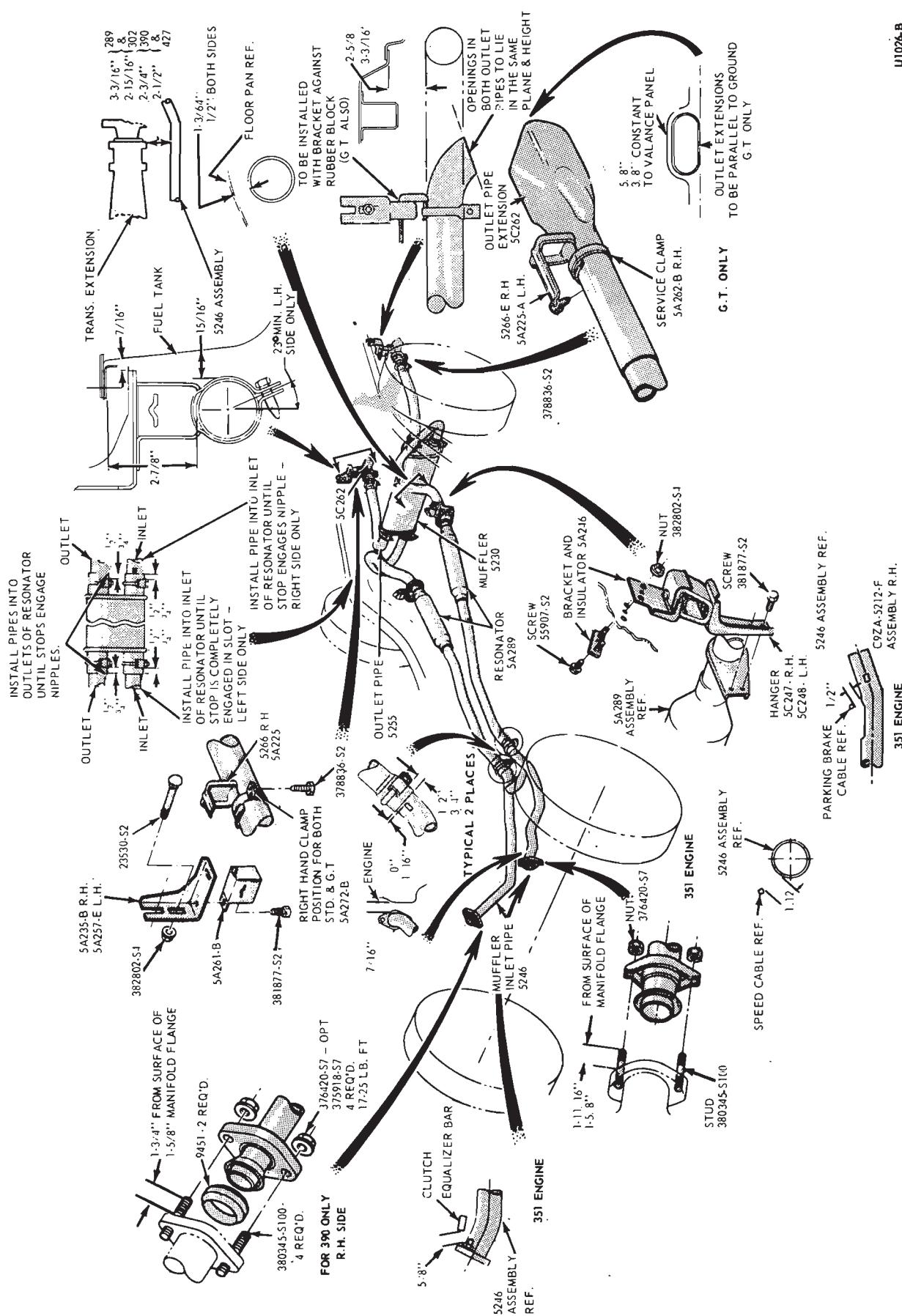


FIG. 6—Mustang Dual Exhaust System—351-4V, 390 and 428 V-8 Engines

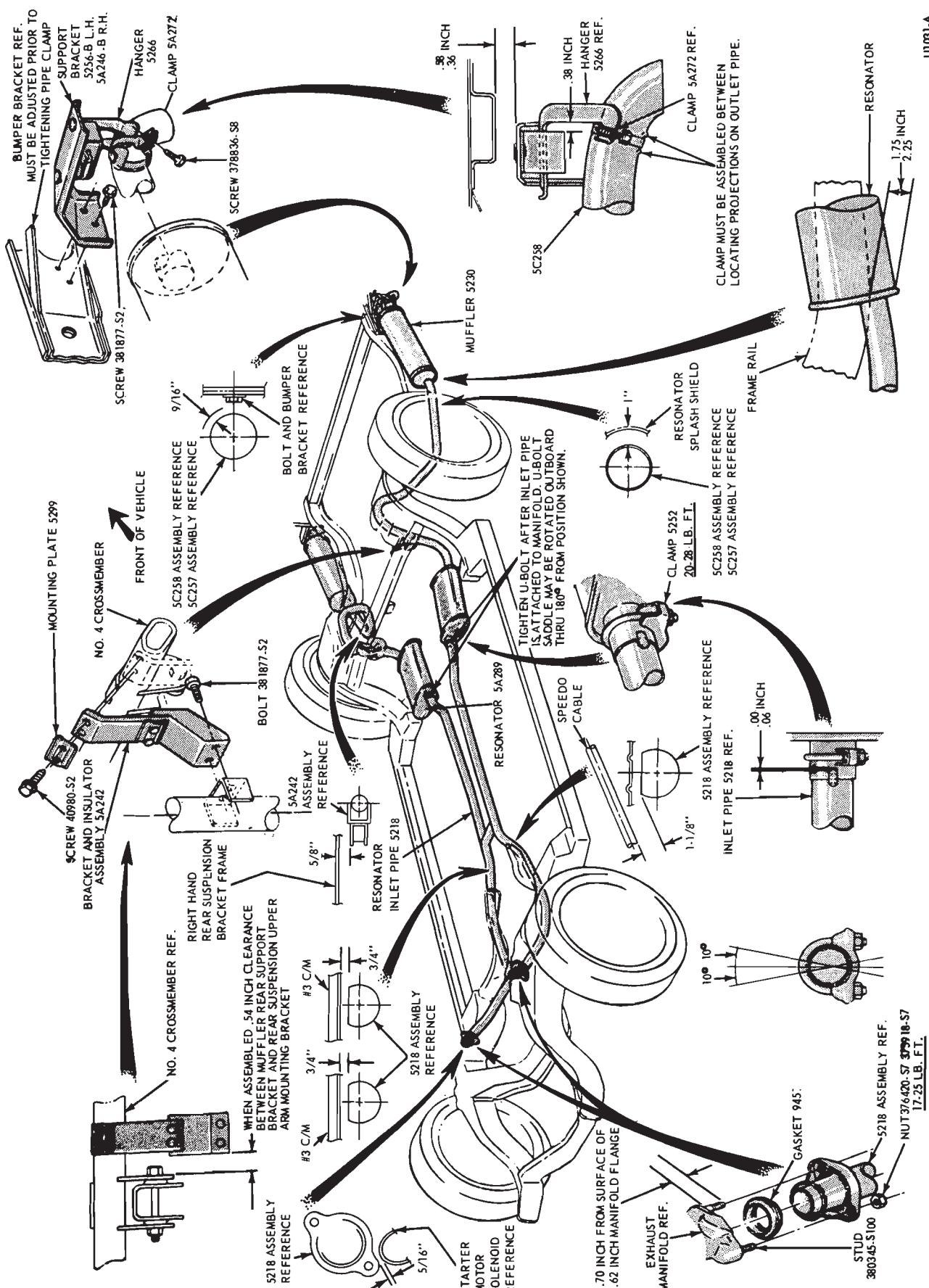


FIG. 7—Thunderbird Dual Exhaust System—429 and 460 Engines

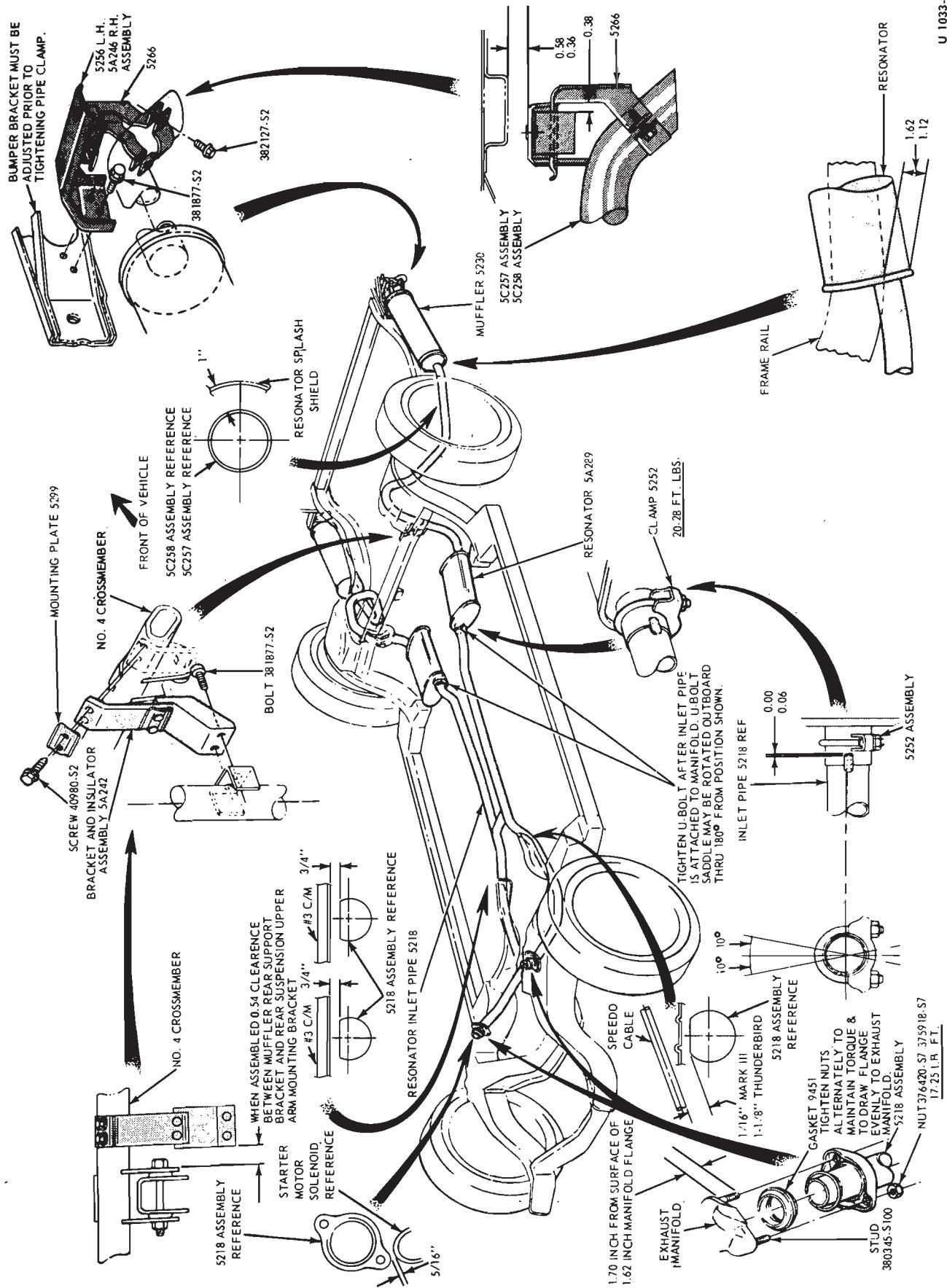


FIG. 8—Continental Mark III Dual Exhaust System—460 Engine

3 SPECIFICATIONS

V-8 DUAL EXHAUST SYSTEMS

COMPONENT	FT.-LBS. OF TORQUE								
	Ford	Mercury	Meteor	Cougar	Fairlane	Montego	Mustang	Thunderbird	Continental Mark III
Inlet Pipe To Exhaust Manifold	17-25	17-25	17-25	17-25	17-25	17-25	17-25	17-25	17-25
Muffler Support Bracket				7 Max.	7 Max.	7 Max.	7 Max.		
Inlet Pipe To Inlet Pipe Extension Clamp				20-28	20-28	20-28	20-28		
Outlet Pipe Clamp (Rear)	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	12 Max.	15-25
Outlet Pipe Support Bracket To Frame (Rear)					14-22	14-22		15-25	15-25
Outlet Pipe Support Bracket To Frame (Front)	15-25	15-25	15-25					15-25	15-25
Outlet Pipe Clamp (Front)	15-25	15-25	15-25					15-25	15-25
Inlet Pipe To Muffler Clamp	20-28	20-28	20-28						
Inlet Pipe Clamp To Resonator								20-28	20-28
Outlet Pipe Extension Clamp, U-Bolt					20-28	20-28	(GT) 20-28		
Muffler Inlet Clamp							(GT) 20-28		
Resonator Support Bracket To Frame							(GT) 14-22		
Resonator Outlet Clamp							(GT) 7 Max.		

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